

**REMARKS/ARGUMENTS**

Reexamination of the captioned application is respectfully requested.

**A. SUMMARY OF THIS AMENDMENT**

By the current amendment, Applicants basically:

1. Cancel independent claim 1 without prejudice or disclaimer.
2. Rewrite dependent claim 4 as an independent claim 1.
3. Amend independent claim 12 to include a portion of dependent claim 20.
4. Amend independent claim 23 to include a portion of dependent claim 27.
5. Editorially amend claims 2, 3, 7, 9 – 11, 13 – 16, 18, 20 – 22.
6. Label Figs. 10 and 11 as Prior Art in replacement sheets which are filed on even date herewith.
7. Respectfully traverse all prior art rejections.
8. Advise the Examiner of the simultaneous filing of a Petition to Extend.

**B. PATENTABILITY OF THE CLAIMS**

Dependent claim 4 has been rewritten as an independent claim and for including portions of the preamble and first paragraph limitation of dependent claim 9. Similarly, independent claims 12 and 23 have been amended to include portions of the preamble and first paragraph limitation of dependent claims 20 and 27, respectively.

As amended, Applicant's independent claims all specify that a specified redundant part (e.g., a first redundant part or a second redundant part, as the case may be) is updated by comparing (on a bit by bit basis) a sign of the likelihood information for the specified redundant part with a sign of a corresponding original redundant part (as set forth, e.g., in the first paragraph limitation of former dependent claims 9, 12, and 27). The amendatory claim language is also found in context in ¶[00058] (e.g., page 14, lines 11+) of the original specification.

Applicant's independent claims thus patentably define over the IEEE reference. The IEEE reference discusses updating of redundant parts but briefly: in the last two sentences of section II ("Algorithm"). In the entire context of Section II of IEEE it is understood that the updating of the redundant parts of the applied references I performed by averaging log likelihood values  $L_1$  and  $L_2$  if their signs are different (see Fig. 2 of the IEEE reference). Thus, the IEEE reference checks the signs and averages the likelihood values for two different redundant parts. That is, the IEEE reference does not teach redundant part updating by comparing a sign of the likelihood information for the a redundant part with a sign of a corresponding (same) original redundant part.

### C. MISCELLANEOUS

In view of the foregoing and other considerations, all claims are deemed in condition for allowance. A formal indication of allowability is earnestly solicited.

The Commissioner is authorized to charge the undersigned's deposit account #14-1140 in whatever amount is necessary for entry of these papers and the continued pendency of the captioned application.

Should the Examiner feel that an interview with the undersigned would facilitate allowance of this application, the Examiner is encouraged to contact the undersigned.

Respectfully submitted,  
**NIXON & VANDERHYE P.C.**

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